

WINTER/SPRING 2013

# the <sup>in</sup>Field

THE FIELD MUSEUM MEMBER MAGAZINE





# the Field

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## ON THE COVER

Discover artwork painted on  
cave walls thousands of years ago

in *Scenes from the Stone Age:*

*The Cave Paintings of Lascaux,*

*March 20–September 8.*

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## The Field Museum

1400 South Lake Shore Drive

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# dear member

Another year, another slate of amazing exhibitions here at The Field Museum. In 2013 our team will be busy filling halls with cave paintings, “glowing” animals, music, and more. Take a look at page 3 to see some of the wonderful exhibitions we have planned.

Speaking of wonderful exhibitions, we are thrilled to present *Scenes from the Stone Age: The Cave Paintings of Lascaux*. Discover the amazing artwork of our earliest ancestors in full-scale reproductions of the cave walls in Lascaux, France. This is the first time the exhibition will be in North America, and you don’t want to miss it. (See pages 4 and 5 for more on this exclusive exhibition.)

And from depictions of animals to actual *live* animals, *Creatures of Light* will introduce you to fish, insects, and even fungi that illuminate the darkness. Everyone has seen fireflies put on a show during summer evenings, but *Creatures of Light* will present a whole host of organisms that create their own luminescence. You’ll see live animals on display, including flashlight fish! (Turn to page 10 to read more.)

It may be January, but be sure to mark your calendars for our upcoming Members’ Nights, April 18 and 19. A highlight in the Museum’s calendar, this much-anticipated event is your opportunity to talk one-on-one with our scientists, tour exhibitions, and get a behind-the-scenes look at upcoming exhibitions! (See page 6 for additional info.)

We look forward to a great year at The Field and are excited you’ll be joining us. As always we thank you for your continued support and hope to see you soon.



DIANE ALEXANDER WHITE

## MICHELLE CLAYTON

*Director of Membership*



# Opening at The Field Museum

## A preview of upcoming exhibitions

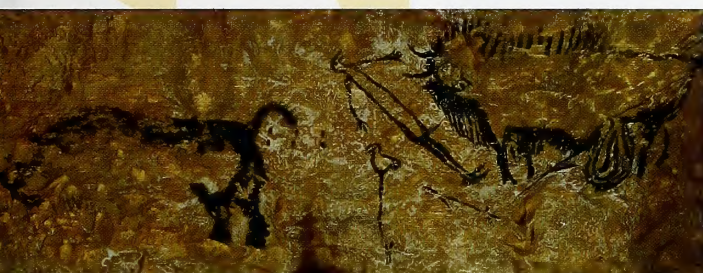
Compiled by Shelby Bremer, Writer

### SCENES FROM THE STONE AGE: THE CAVE PAINTINGS OF LASCAUX

March 20 through September 8, 2013

The Lascaux cave in southern France houses some of the world's most famous cave paintings made nearly 20,000 years ago.

The cave complex was closed to the public in 1963 to conserve the ancient artworks. Now these early masterpieces have been recreated in precise replications. In addition to the paintings, visitors will also see lifelike reproductions of a Stone Age family, rare artifacts, and movies and interactives that reveal our ancestors' creativity. (See pages 4 and 5.)



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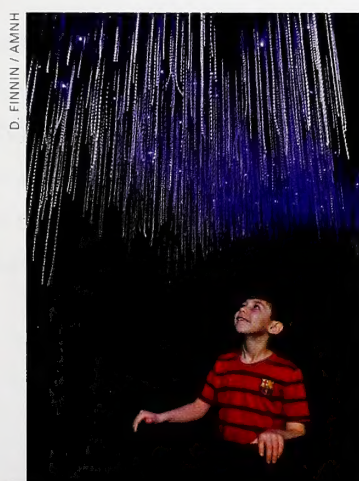


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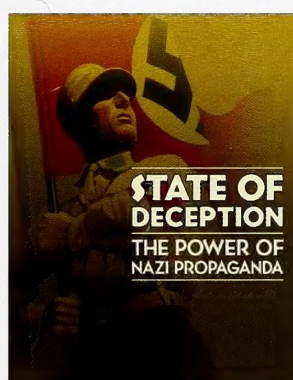
### CREATURES OF LIGHT: NATURE'S BIOLUMINESCENCE

March 7 through September 8, 2013

Bioluminescence is the chemical reaction by which certain species generate light—and it's nothing short of magical. From fireflies flickering through meadows, to jellyfish lurking in the ocean, and even to mushrooms growing on decaying trees, this natural phenomenon is all around. Experience the wonder with recreated environments, live animals, and interactive models in this immersive, glowing exhibition. (See pages 10 and 11.)



D. FINNIN / AMNH



### BIORHYTHM: MUSIC AND THE BODY

October 18, 2013 through January 20, 2014

What makes us dance? Why do we toe-tap with the beat? Is there a formula for the perfect song? Find out as music and science collide in an interactive bazaar of installations, performances, and experiments with sound. This exhibition allows you to feel how music moves your body and understand the natural forces behind the rhythm and blues.

### OPENING THE VAULTS: WORLD'S FAIR

October 25, 2013 through May 4, 2014

In a continuation of the popular "Opening the Vaults" series, this exhibition will provide a never-before-seen glimpse into the Columbian Exposition of 1893. Not only was this spectacular Chicago gathering the birthplace of chewing gum and the Ferris wheel, it was also the debut

of our very own Field Museum. And now, 120 years later, The Field Museum is opening its collections to display incredible artifacts that will give visitors insight into one of the most prominent events in Chicago's history.

### STATE OF DECEPTION: THE POWER OF NAZI PROPAGANDA

November 6, 2013 through February 2, 2014

Featuring rarely seen artifacts in a rich multimedia environment, this exhibition illustrates the Nazi Party's keen understanding of communication that enabled it to foster a climate of hatred, suspicion, and most importantly, indifference toward human suffering. As he rose to power, Adolf Hitler established a potent visual identity that to this day, conjures images of terror and brutality. Understand the delicate intertwining of persuasion and authority in a revealing and evocative new way. **ITF**

BASED ON 1933 GERMAN FILM POSTER, KUNSTBIBLIOTHEK BERLIN/BPK/ART RESOURCE, NY



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# SCENES FROM THE STONE AGE: **The** Cave Paintings of Lascaux

By Nancy O'Shea, Director of Public Relations

**Opens  
March 20**



**IN SEPTEMBER 1940, FOUR TEENAGE FRIENDS ENTERED THE LASCAUX CAVE COMPLEX IN SOUTHERN FRANCE AND STUMBLED UPON AN ASTONISHING, PRICELESS TREASURE. HIGHLY SOPHISTICATED PAINTINGS AND ENGRAVINGS OF ANIMALS LINED THE CAVE WALLS, ARTWORK MADE BY THE HANDS OF OUR ANCESTORS NEARLY 20,000 YEARS AGO.**



*In 1940, tracing paper provided the best way to accurately record the paintings.*

*Lifesize reproductions of famous scenes from the Lascaux caves will be on display including the scenes above, The Hall of Bulls (left), the Black Cow (right), and the Crossed Bison (opposite page, left).*

With their evocative imagery and unusual proportions, the cave paintings of Lascaux (pronounced lass-KOH) quickly gained recognition as the world's premier examples of prehistoric art. Lascaux attracted over one million visitors between 1948 and 1963 before the French government closed the cave to the public in order to preserve the ancient masterpieces.

Now visitors to The Field can experience the same thrill of discovery felt by those young cave explorers more than 70 years ago. On March 20, the Museum will open *Scenes from the Stone Age: The Cave Paintings of Lascaux*, monumental recreations of the cave walls with full-size replicas of paintings.

IMAGES © PHILIPPE PSAILA UNLESS OTHERWISE NOTED





In order to be recreated, the cave was given a full 3-D scan (above). A person walks through the Hall of Bulls, highlighting the immense size of the paintings (right).

In *Scenes from the Stone Age*, visitors walk through an immersive environment to discover depictions of Pleistocene animals—including deer, horses, aurochs (wild cattle), and bison—many of which are either extinct or are no longer native to France. You'll see the Black Cow Panel, Swimming Stags Frieze, Crossed Bison Panel, and Shaft Scene which have never been reproduced before and will be shown in the exhibition for the first time. Simulated oil lamp and torch light illuminate the paintings to make them appear as the ancient artists would have seen them.

World-renowned sculptor Elisabeth Daynès created an amazingly lifelike stone-age family which visitors encounter inside the exhibition's intimate setting. The family—including an old man, an adolescent, a woman, and a child—are dressed in clothing and ornaments made of materials available 200 centuries ago. These people were far from the "cave men" of popular imagery. They were hunter-gatherers who lived in a structured society with a culture much more sophisticated and refined than most of us imagine. (See page 14 to learn more about these people.)

The exhibition features rare Stone Age artifacts from the Museum's collections and also from the Vézère river valley where the Lascaux cave is located. Interactives and videos explain how Paleolithic people lived, hunted, ate, and clothed themselves. Multimedia presentations and interactive stations reveal the paintings' complexities and provide insight into the talent required to create them.



© CNP-DRAC-MCC

In a wall projection visitors can observe the Black Cow panel as it is constructed and deconstructed, uncovering engravings, hidden animals, and symbols. You can discover how the Lascaux artists took advantage of the cave's surface texture to create perspective and illusions of movement.

Despite 70 years of research and analysis, the exact meaning and purpose of the Lascaux cave paintings remain a mystery. The artwork is not haphazard—the compositions are masterful and complex—and created with a clear purpose, although that purpose is currently unknown to us.

*Scenes from the Stone Age* invites us to contemplate some of man's earliest masterpieces in all their splendor, power, and emotion within an atmosphere that allows us to reflect on the origins of humanity. **ITF**

*This exhibition was created by The General Council of Dordogne, with support provided by the Regional Council of Aquitaine, the French Ministry of Culture and Communication, and the European Union.*

***Scenes from the Stone Age* opens March 20 and runs through September 8, 2013. The Field Museum is the first North American venue for this exhibition organized by The General Counsel of Dordogne.**



# Don't Miss Members' Nights!

By Franck Mercurio, Associate Editor, In The Field



GN91119\_173D / KAREN BEAN

**ONE OF THE GREAT BENEFITS OF MEMBERSHIP AT THE FIELD MUSEUM** is an exclusive invitation to attend Members' Nights. Each year, the Field invites its members to explore behind the scenes after the building is closed to the general public. Collections storerooms, research labs, exhibitions workshops, and other non-public areas are open to Museum members with scientists and staff on-hand to lead tours, answer questions, and discuss current projects in the works.

Members' Nights are definitely fun for members. But they are also beneficial for Museum staff. It's an opportunity for staff to listen to—and even learn from—our own members.

"I just love seeing people react to our ideas," says Marie Georg, an exhibition content developer. "We do a pretty good job anticipating which new exhibition ideas will get people's attention, but it's so gratifying to hear people say, 'I have to come back to see *that*.'"

During Members' Nights, the Exhibitions staff surveys members about new exhibition ideas, titles, and subjects. Members also participate in shaping in-progress interactive displays. During 2012's Members' Nights, the Exhibitions staff polled members about potential activities for the renovated Bird Hall. Says Georg, "This one was fun because I think we were getting pretty honest feedback—the members didn't like everything!"

Meanwhile, in Geology, Akiko Shinya says about Members' Nights, "I see how interested and surprised people are with our discoveries and on-going research." As Chief Preparator of Fossil Vertebrates, Shinya oversees one of the evenings' more popular stops: the fossil prep lab. Here, Museum members have lots of questions about the age of the fossils, the species' names, and where they were discovered.

Says Shinya, "It's fun to talk to people who are interested in the Museum and science in general." Some of these visitors express interest in how Shinya became a fossil preparator. "Members' Nights are fantastic opportunities to cultivate new volunteers," she says. "I now have several volunteers who started after visiting our lab during Members' Nights!" **ITF**



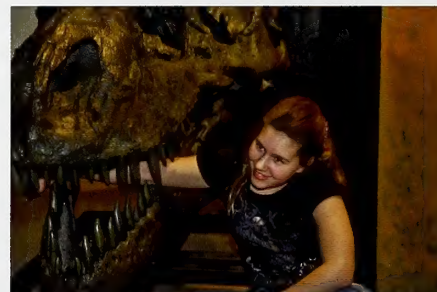
GN91139\_60D / STEPHANIE WARE

# APRIL 18+19 THURSDAY+FRIDAY

For more information, visit [fieldmuseum.org/support/member-events](http://fieldmuseum.org/support/member-events).

Reservations are required for Members' Nights.

Please call **312.665.7700** [Mon.–Fri., 8:30am–4:30pm] to make reservations.



GN91119\_241D / KAREN BEAN



# What's new with SUE?

By Franck Mercurio, Associate Editor, In The Field

**IT'S BEEN NEARLY 13 YEARS SINCE SUE WAS FIRST UNVEILED** at The Field Museum, and in that period, scientists have made many new discoveries about SUE and her *T. rex* brethren. Curators are sharing this exciting information with Museum visitors through a series of recently redeveloped SUE displays.

Working with Museum scientists, the Exhibitions Department has produced a variety of interactive media elements located in the Searle Lounge underneath the giant mural of SUE. Renovations to this area—completed this past November—include new carpeting, updated graphics, and newly designed and fabricated visitor seating.

The refurbished display case containing SUE's massive skull\* still dominates the Searle Lounge, but the surrounding content has been updated to reflect the latest scientific discoveries. A video presentation featuring an animated version of Peter Makovicky, PhD, curator of the exhibition, explains how our views of SUE have changed over the past 110 years including new research since 2000. Nearby, a large (60-inch) multi-touch screen presents a 3-D digital model of SUE which invites visitors to explore SUE's anatomy first hand.

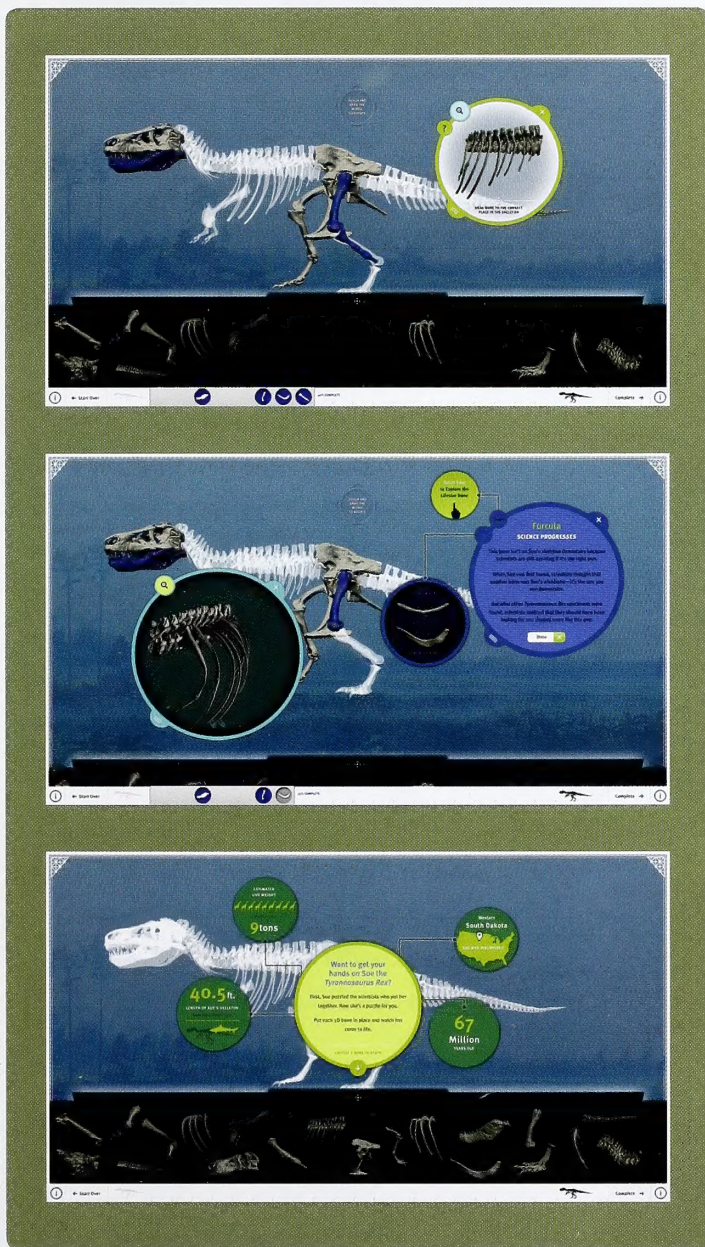
An interactive timeline encourages visitors to investigate the story of SUE's discovery in South Dakota in 1990 and her subsequent journey to The Field in 2000. The popular time-lapse video of SUE's installation and historic unveiling is now outfitted with controls allowing visitors to stop and speed up the action at any point in the presentation.

Next time you visit The Field, stop by the Searle Lounge, and discover what's new with SUE! **ITF**

The Elizabeth Morse Charitable Trust is the generous sponsor of the Searle Lounge exhibition on SUE.

\*The skull on SUE's skeleton is a cast replica. Due to the original's incredible weight (over 600 pounds!), the real skull sits inside its own display case on the mezzanine instead of with SUE's other fossilized bones on the Museum's main floor.

Which bones fit where? Visitors use scientific scans of SUE's actual bones to solve a 3-D digital puzzle and assemble SUE's skeleton.





# Camp Opportunities for Young Explorers!

By Eduarda Briseño, Public Programs Manager, Education Department

THE FIELD MUSEUM OFFERS TWO UNIQUE SUMMER CAMP PROGRAMS DESIGNED TO ENGAGE YOUNG CHILDREN IN AN EXPLORATION OF THE SCIENCES AND PROVIDE HANDS-ON OPPORTUNITIES HIGHLIGHTING THE MUSEUM'S SCIENTIFIC COLLECTIONS AND RESEARCH.

REGISTER TODAY!

## **Dino Camp: I Spy a Dinosaur! Do You?**

an early childhood camp designed exclusively for young paleontologists ages three to four and their caregivers. Through songs, interactive play, and hands-on art activities, campers will learn about SUE the *T. rex*, dig for fossils, and go on scavenger hunts throughout the Museum in search of dinosaurs! *Dino Camp* takes place from 9–11:30am in the *Crown Family Playlab*.

**Session 1:** Mondays, June 3 & 10

**Session 2:** Tuesdays, June 4 & 11

**Session 3:** Thursdays, June 6 & 13

**Session 4:** Mondays, June 17 & 24

**Session 5:** Wednesdays, June 19 & 26

**Session 6:** Thursdays, June 20 & 27

Cost: \$75 per child; \$65 for Field Members

*Dino Camp* tickets are on sale now. Call 312.665.7400 or visit [fieldmuseum.org](http://fieldmuseum.org) to register online.



GN90771\_020D / JOHN WEINSTEIN

**Summer World's Tour** opens the doors of the Adler Planetarium, The Field Museum, and the Shedd Aquarium for campers to explore the depths of sky, land, and water through exclusive access to exhibitions, hands-on activities, games, and art projects. Designed for children entering kindergarten through fifth grade, Summer World's Tour offers children a week full of fun and exciting adventures! Each camp session runs Monday through Friday from 9am–3pm.

**Session 1:** July 8–12

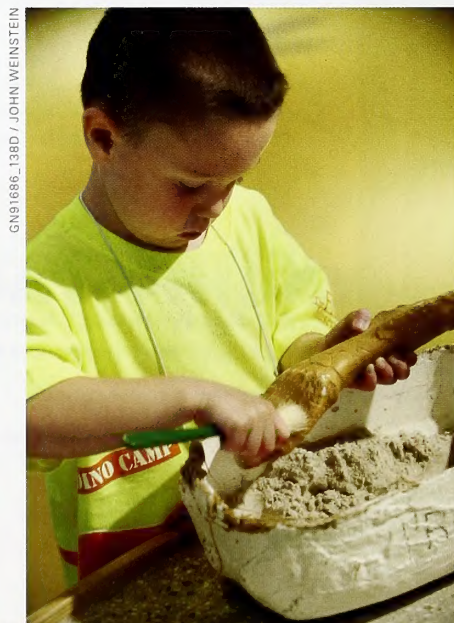
**Session 2:** July 15–19

**Session 3:** July 22–26

**Session 4:** July 29–August 2

Cost: \$295 per child; \$265 for Field, Shedd, or Adler Members

Summer World's Tour tickets go on sale January 23. Please call 312.322.0329 or visit [www.adlerplanetarium.org/camp](http://www.adlerplanetarium.org/camp) to register online.



GN91686\_138D / JOHN WEINSTEIN



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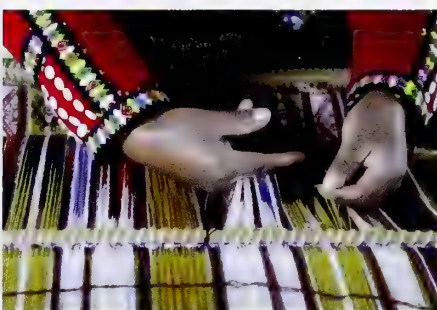
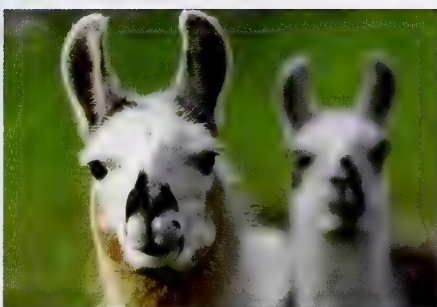
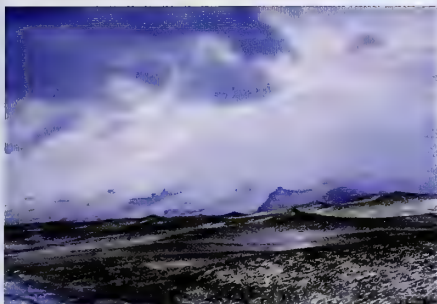
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# Culture Comes in from the Cold

By Amanda Respess, Writer

**AS WINTER RETURNS TO CHICAGO, MUSEUM RESEARCHERS LOOK AT HOW HUMANS HAVE ADAPTED TO COLD CLIMATES ACROSS THE GLOBE.**

In the high plains of Peru and Bolivia, where chronic cold is a fact of life, freezing temperatures are seen as a resource rather than an obstacle. The snowy cold provides drinking water and the means of preserving food for the local Quechua and Aymara peoples.

Field Museum archeologist Ryan Williams, PhD, conducts research in the high elevations of the snow-capped Andes. Here, the people view the frozen peaks as their founding ancestors. According to Williams, "The mountains are the receivers of life-giving force; they are the people's ancestors, protectors, and punishers. Snow provides the precious water that trickles down to the dry land."

The cold Andean temperatures allow crops to be freeze-dried naturally. Staples like *chuño*, made from potatoes, can be reconstituted into soups and stocks. Llama meat is dried into *charqui*, an excellent source of protein during long, frozen winters. And alpaca wool is woven into warm, layered clothing.

Nearly 6,000 miles away in Iceland, Doug Bolender, PhD, a post-doctoral fellow at The Field, researches the history of farming systems and people's responsiveness and adaptability to the cold. "Iceland is the edge of the world in terms of arable farming," says Bolender.

Although today one can "fake the summer" using geothermal greenhouses, the traditional reliance on sheep and cattle as livestock still dominates in Iceland. "The intense work of harvesting hay for livestock requires many hands," says Bolender. This warm-weather work is essential for cold-weather survival. "Summer work has to be done to get you through the winter," he adds.

When winter finally arrives, it signals the transition to intimate indoor retreats and socializing in the home. With the sun low in the sky and daylight scarce, moonlight and the Aurora Borealis create an ethereal world of snow-reflected light. "It's a lightness you've never really imagined," says Bolender. "It is an upside down winter, a different world." **ITF**



# Creatures of Light: Nature's Bioluminescence

By Nancy O'Shea, Public Relations Director

**CREATURES OF LIGHT: NATURE'S BIOLUMINESCENCE, A MAJOR NEW EXHIBITION  
RUNNING MARCH 7 THROUGH SEPTEMBER 8, 2013, EXPLORES THE EXTRAORDINARY ORGANISMS  
THAT PRODUCE LIGHT, FROM THE FLICKERING FIREFLIES FOUND IN BACKYARDS  
TO THE ALIEN-LIKE FISHES AND OTHER FANTASTIC CREATURES  
THAT ILLUMINATE THE DEPTHS OF THE OCEANS.**



*Scorpions have fluorescent molecules that glow under ultraviolet light.*

IMAGES © AMNH / D. FINNIN UNLESS OTHERWISE NOTED

The exhibition invites visitors to explore a series of recreated environments, from the familiar to the extreme, to discover the variety of ways in which organisms use light to attract a mate, lure unsuspecting prey, or defend against a predator.

In this fascinating exhibition, you can discover glowing mushrooms; communicate with electronic fireflies; watch the spectacle of glowworms trapping prey; walk through a lagoon filled with dinoflagellates (tiny organisms that create a glowing halo around anything that moves through the water); and get to know many other creatures of light.

*Top of page: Firefly signals in Japan.*

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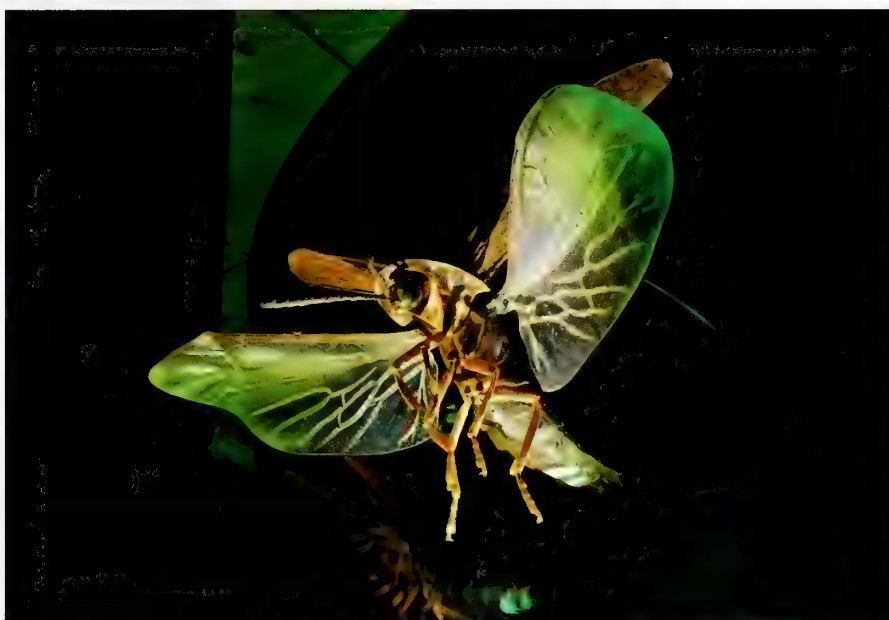
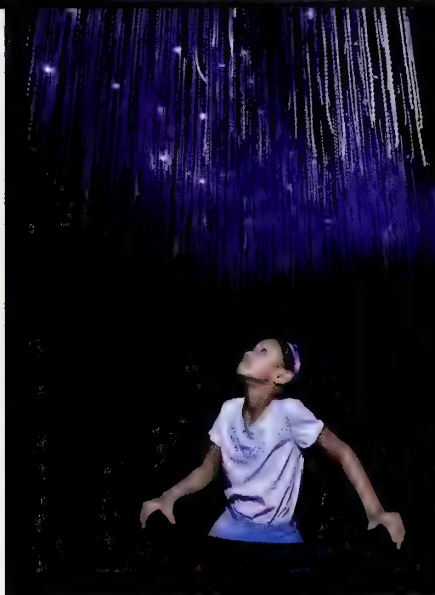
Although relatively rare among organisms that live on land, the ability to generate light through a chemical reaction is much more common in the ocean, where up to 90 percent of animals at depths below 2,300 feet are bioluminescent, and where scientists continue to discover bizarre new bioluminescent species. Due to pollution, overfishing, and global climate change, many of these organisms are in danger of disappearing, some even before they have been discovered and studied.

*Creatures of Light* features live flashlight fish, which harbor bioluminescent bacteria in an organ under their eyes and use the bacterial light to communicate, avoid predation, and attract prey.





*Clockwise, from above: Visitors will discover bioluminescent jelly fish and glowworm models and get up close and personal with oversized models of a male firefly and glowing mushroom.*



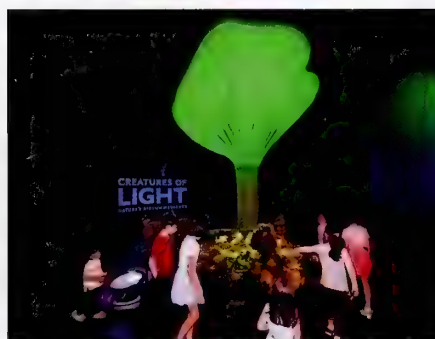
Visitors can also discover the crystal jellyfish that combines blue bioluminescence with biofluorescence to emit flashes of green light. A protein found in its light organs has become a critical tool in cellular and developmental biology

Perhaps most engaging, the exhibition shows the diversity of animals that marine biologists have captured on camera in recent years: a squid that suddenly sheds its glowing skin when threatened, and a viperfish whose fangs are so long they don't fit inside its head. Large-scale models portray a diverse array of deep-sea creatures, such as a female anglerfish with her own built-in fishing rod—a modified fin spine topped with a lure that glows with bacterial light to attract prey. You'll also get to know *Vampyroteuthis infernalis* ("vampire squid from hell"), who can turn inside out to reveal fearsome glowing spikes, and confound predators with its blue, light-emitting arm tips.

Throughout *Creatures of Light*, visitors can deepen their experience by interacting with iPads that offer engaging videos, animations, and photographs. Additional interactive components and videos offer visitors opportunities to meet scientists whose work contributes to the exploration of bioluminescence. **ITF**

*Creatures of Light: Nature's Bioluminescence is organized by the American Museum of Natural History, in collaboration with the Canadian Museum of Nature, and The Field Museum.*

*Major Sponsor: Discover*





# Field Guides for Madagascar

By Steve Goodman, MacArthur Field Biologist, Department of Zoology



**FOR MY TWELFTH BIRTHDAY, A GREAT UNCLE GAVE ME** a pair of binoculars and a field guide to the birds of eastern North America. A curiosity was awakened in me that set the stage for my career in science and natural history, including the past 25 years exploring the forests of Madagascar.



GN90737\_3C / DAVID RIGG

Growing up in North America, I was fortunate to have access to numerous natural history guidebooks. I remember buying books before family vacations, ranging from the ferns of the Appalachians to the reptiles east of the Mississippi.

In countries where field guides are available, there is a notable difference in the number of people actively engaged as naturalists or as scientists working in evolutionary biology and conservation. In Kenya and the Seychelles, for example, a remarkable number of non-scientific books are available to local people and provide information on the natural history of their countries.



*For further information on the field guides of Madagascar and how to obtain them, please send a message to [edition@vahatra.mg](mailto:edition@vahatra.mg) or write to Association Vahatra, BP 3972, Antananarivo 101, Madagascar.*

But for a nation like Madagascar—with untold biological richness—most literature on native plants and animals is highly technical and written in English, a language that most people from French-speaking Madagascar do not read.

To help remedy this situation, I collaborated with colleagues from the Association Vahatra in Antananarivo to publish the first non-technical field guides on Madagascar. With support from outside foundations and private donors, the scientists at Vahatra launched the series. Each book is written in everyday French and presents details on local species, their natural history and conservation status, as well as important broader questions about ecosystems and climate change. The critical idea is for local people to discover their natural world.

Published in 2011, the first field guide is dedicated to the island's bats. Subsequently, three others have appeared covering small mammals, birds, and carnivores.

*Illustrations from top to bottom: Malagasy mountain mouse, Greater hedgehog tenrec, Malagasy civet*

ILLUSTRATIONS BY VELIZAR SIMEONOVSKI

*continued on page 14*





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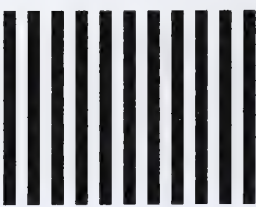
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# Collections and Cultural Identity

By Alaka Wali, Curator of North American Anthropology  
and Applied Cultural Research Director, ECCo

**I AM PRIVILEGED TO WORK IN TWO AMAZING FIELDS:** Chicago and the Amazon region of Peru. Anthropologists use comparison as a way to study similarities and differences across cultures, so having the opportunity to work in different locations is critical to our research. A great opportunity for comparative work also comes from the Museum's anthropology collections.



In 2010, I assumed curatorial duties for the North America anthropology collection, and discovered a whole new dimension to comparative work. My responsibilities now include working with visiting delegations from North American Indians who come to study our collections usually in collaboration with Repatriation Director Helen Robbins. In the comments of visiting elders, I often hear a thread very similar to words from elders in the indigenous communities of the Amazon. The elders talk with great poignancy about the challenges they face in transmitting cultural knowledge to the younger generations. They appreciate having access to the Museum's collections for study and reflection on the accumulated knowledge that the objects embody.



*Above: Alaka Wali greets elders from the Wind River Reservation (top). Arapahoe and Shoshone elders view Museum collections (bottom).*

IMAGES COURTESY ALPHEUS MEDIA

In June 2012, we hosted a delegation of Arapahoe and Shoshone elders from the Wind River Reservation in Wyoming. They have teamed up with a film producer and crew to create a "virtual museum" with high-resolution photographs of the objects including video interviews with the elders discussing the objects, both in English and in their native language. During the visit, as we looked at the collection, one elder thanked our collections staff for caring for the objects over all these years. He said he was hopeful that knowledge transfer could continue after seeing that these things were still well taken care of and "living here."

His comments reminded me of almost exactly the same words I had heard from Shipibo elders in Northern Peru, near the Cordillera Azul National Park. Here, together with local collaborators, scientists in the Environment, Culture and Conservation Division (ECCo) have been engaging local people in efforts to protect the Park's diverse habitats and improve their own quality of life, both facing threats from heavy extraction of natural resources for commercial purposes.

*continued on page 15*





# The Modern Minds Behind

**CREATED NEARLY 200 CENTURIES AGO, THE CREATIVE MINDS BEHIND THE LASCAUX CAVE PAINTINGS** were anything but the stereotypical knuckle-dragging, loincloth-wearing,

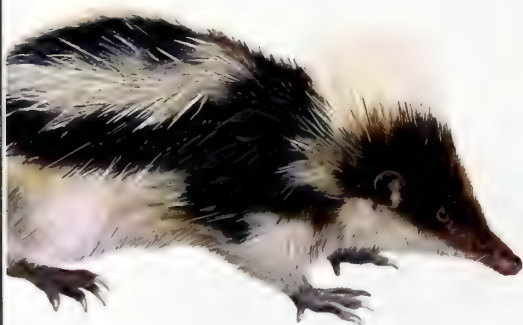
and club-wielding cave dwellers you might picture.

*Elizabeth Daynès, a French sculptor, uses facial reconstruction techniques to bring those who lived near Lascaux to life.*

IMAGES © E. DAYNÈS

In fact, the artists were anatomically modern *Homo sapiens*, just like people today. And rather than living in caves as the outdated term “caveman” implies, these people built framed huts and rock shelters in which to live. Archaeological evidence suggests that early humans used some caves as ritual sites, hence the now famous cave paintings found at Lascaux and other caves in western Europe.

It seems likely that the people of Lascaux followed the migration of the animals that constituted their main food supply. To take down a reindeer, their most effective weapon was the spear—a skillfully filed antler attached to a wooden stick using vegetal rope or animal gut. When coupled with a spear thrower, the increased power and improved accuracy allowed early humans to hunt from a greater distance. A slain reindeer could provide skin for clothing and homes, bones for weapons and tools, and fat for fuel.



Highland streaked tenrec

ILLUSTRATIONS BY VELIZAR SIMEONOVSKI

## Field Guides for Madagascar *(continued from page 12)*

The books are designed, type-set, and printed in Antananarivo—the capital city of Madagascar—and proudly state “vita Malagasy” or “made in Madagascar.” The first four volumes in the series are graced by the extraordinary illustrations of Museum illustrator Velizar Simeonovski.

The guides have become popular among budding Malagasy naturalists and scientists. The print run for each field guide is 1,500 copies. Of these, 500 copies are reserved for Malagasy students, academics, researchers, naturalists, and budding nature lovers; and for the most part, these 500 are distributed for free. The balance is sold to raise funds for the continuation of the series and other projects sponsored by Vahatra. **ITF**

*The field guides are published with support from Critical Ecosystem Partnership Fund and the Ellis Goodman Family Foundation.*



LUCY (*Australopithecus afarensis*) LIVED **3.2 MILLION** YEARS AGO

ANATOMICALLY MODERN HOMO SAPIENS EVOLVED IN AFRICA **100–200,000** YEARS AGO

EARLIEST KNOWN CAVE PAINTINGS (AT CHAUVET) CREATED **32,000** YEARS AGO

THE EARLIEST CAVE PAINTINGS AT LASCAUX CREATED **17,000** YEARS AGO

SMALL-SCALE AGRICULTURE IN ANCIENT EGYPT BEGAN ABOUT **9,000** YEARS AGO

# ascaux

By Travis Cornejo, Writer

While reindeer might have been a large part of their diet, there is evidence that the Lascaux people also ate fish, eggs, birds, and gathered a variety of plants.

The people of Lascaux made clothing as well, but not the simple loincloth you might imagine. Having mastered the needle and thread (made from bone and vegetable fibers), the people made garments that fit well and had decorative touches and adornments. While clearly providing protection from the elements, clothes probably served as a social marker of sorts.

When we look at images from Lascaux, it may be easy to note the many differences there are between us and our ancestors. But by the time these people were painting the cave walls, modern humans had already existed for tens of thousands of years. They were masters at hunting, survival, and as the Lascaux caves prove—magnificent art. **ITF**



In addition to the recreated caves, visitors to Scenes from the Stone Age: The Cave Paintings of Lascaux will come face-to-face with lifelike sculptures of our early ancestors.

## Collections and Cultural Identity *(continued from page 13)*

As part of our effort, we made a collection of Shipibo ceramics and textiles and produced a film that includes commentaries by the Shipibo about their perceptions of their lifeways and how they have changed. In the film, Shipibo elders comment on the loss of cultural knowledge about ceremonies and about how to make ceramics. They say that the film would be a great tool for them to show their children the value of these practices.

Across continents, indigenous people share similar challenges for retaining their distinct identities and ways of life. Our collections, for them and for us, are vital and living storytellers. **ITF**



ALAKA WALLI © THE FIELD MUSEUM



In the Spotlight:

# The Funerary Boat of Senwosret III

By James L. Phillips, PhD, Curator of Inside Ancient Egypt

**ONE OF MOST EXTRAORDINARY OBJECTS** in The Field Museum's Egyptian collection is the funerary boat of Pharaoh Senwosret III. Unearthed at Dashur, Egypt, by French archaeologist Jacques de Morgan, it was purchased by Mrs. Cyrus McCormick in 1895 and arrived in Chicago in 1898. The boat was moved to its present location in *Inside Ancient Egypt* in 1988.



Senwosret III reigned from about 1879 to 1859 BC. He was one of the most powerful pharaohs of the Middle Kingdom's 12th Dynasty and constructed one of Egypt's greatest pyramids at Dashur (south of Giza) along with a complex of funerary chapels and temples. It was here that de Morgan discovered six funerary boats. The Field Museum's boat was most likely *not* built for Senwosret III's funeral; evidence suggests that it had been in use on the Nile and eventually "conscripted" for the pharaoh's funeral and then transported to the burial site.

The boat is about 32 feet long by 8 feet wide and fabricated of imported cedar with some local tamarisk wood. It consists of planks, tenons, a central stake (mast), deck, rudder, and steering oars. Before burial, the boat was painted—as were the other boats from Dashur—and still has traces of white plaster and red, blue, and black stripes.

The Museum's boat has an important scientific history. In 1950 fragments of its wood were used by Willard Libby (1908–1980), PhD, of the University of Chicago for testing the radiocarbon method. Libby was awarded the Nobel Prize in 1960 "for his method to use carbon-14 for age determination in archaeology, geology, geophysics, and other branches of science." Libby's radiocarbon dating proved that the Field's boat is nearly 4,000 years old, placing it in the same time period of Senwosret III. **ITF**

*From top: The funerary boat of Senwosret III before it was installed in Inside Ancient Egypt in 1988; the funerary boat as displayed in Inside Ancient Egypt; and, a painted wood model of an ancient Egyptian funerary boat.*

IMAGE CREDITS FROM TOP: A110746C / RON TESTA AND DIANE ALEXANDER WHITE; A111375C / RON TESTA A110665C / RON TESTA AND DIANE ALEXANDER WHITE



## The Corporate Relations Program

The Corporate Relations Program at The Field Museum offers exciting benefits for employees, clients, and executives, including:

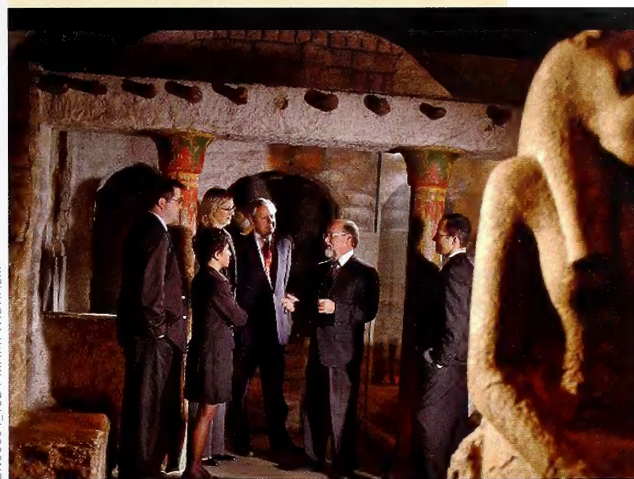
- FREE general admission for all employees plus a guest;
- One rental-free waiver for a corporate meeting or event;
- Corporate family day for employees and their families;
- Discounted ticket rates to special exhibitions;
- Employee volunteer opportunities;
- Invitations to exhibition opening receptions, and much more.

For more information visit [fieldmuseum.org/support/corporate-giving](http://fieldmuseum.org/support/corporate-giving) or contact Julia Kittle, Corporate Relations Program Officer, at 312.665.7668 or [jkittle@fieldmuseum.org](mailto:jkittle@fieldmuseum.org).

## The Council on Africa

Council members contribute to a fund which supports The Field Museum's research and conservation across the continent of Africa. The Council meets twice a year to vote on how to allocate their funds, choosing from a variety of projects submitted by Field Museum scientists. In addition to seeing the direct impact of their generosity, Council on Africa members also enjoy a robust calendar of programs including behind-the-scenes tours, specimen unpacking parties, scientific lectures and more. Membership begins with a tax deductible gift of \$1,500. For more information, please contact Lora Nickels at 312.665.7869 or [lnickels@fieldmuseum.org](mailto:lnickels@fieldmuseum.org).

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## Field Museum Memberships

**Time to renew your membership?**

Call 312.665.7700 • Mon.–Fri., 8:30am–4:30pm

Visit [fieldmuseum.org/membership](http://fieldmuseum.org/membership)

*Field memberships also make great gifts!*

VOAHANGY SOARIMALALA



## museum campus neighbors

### SHEDD AQUARIUM

When the weather outside is frightful, plan a tropical trip to Shedd Aquarium's **Amazon Rising** exhibition. Bask in the atmosphere of an Amazon floodplain forest, filled with astonishing fishes, frogs, turtles, birds, and even monkeys. Touch-screen interactives let you imagine yourself in the forest during high- and low-water seasons and show how far Amazon floods would stretch across Chicago. Buy tickets online at [www.sheddaquarium.org](http://www.sheddaquarium.org) for immediate entry.

### ADLER PLANETARIUM

Take a mind-blowing tour of the Universe in **Welcome to the Universe**, the latest adventure departing from the Grainger Sky Theater. Travel a billion light-years and back while flying through space, orbiting the moon, and soaring through the cosmic web. Explore the big questions—How large is the Universe? Where did it come from? Are we alone?—in **The Universe: A Walk through Space and Time**. Find out more at [www.adlerplanetarium.org](http://www.adlerplanetarium.org).



# program calendar

Program Tickets + Info 312.665.7400

General Museum Info 312.922.9410

## january

### Artists and Authors\*

**1.19, 11am–2pm** > Celebrate Martin Luther King, Jr. Day in the *Crown Family PlayLab*. Listen to storyteller Linda Gorham as she weaves multicultural stories with “attitude.” Stop by the art studio and create your own self-portrait where you will study the color of your eyes, the shape of your mouth, ears, and nose to see what makes you unique!

## february

### Artists and Authors\*

**2.16, 11am–2pm** > What is that shooting across the sky? A bird? A plane? No, it's a meteorite! Meet scientist Jim Holstein as he joins us in the *Crown Family PlayLab* to share meteorite specimens from the Museum's collection. Stop by the art studio to make a piece of art that is out of this world!

## march

### Artists and Authors\*

**3.16, 11am–2pm** > The ants go marching one by one, Hoorah, Hoorah! Join us in the *Crown Family PlayLab* as we take a closer look at ants. Meet Field Museum scientists, observe live ant farms, and march along as we read April Pulley Sayre's book, *Ant, Ant, Ant! (An Insect Chant)*.

## april

### Artists and Authors\*

**4.20, 11am–2pm** > Join us for this special Artists and Authors event as artist Ian Sherwin transforms the Art Studio of the *Crown Family PlayLab* into a Stone Age cave from Lascaux. Create your own cave painting using paper and oil pastels, then hang it on the cave walls for others to discover.

\*FREE with Museum Admission  
in the *Crown Family PlayLab*

## overnights <sup>DOZIN' WITH</sup> THE DINOS at the museum



SUE the *T. rex* is having a sleepover! Join us for a night of family workshops, self-guided tours, and fun activities. Explore ancient Egypt by flashlight, prowl an African savannah with man-eating lions, and take a stroll through the Royal Palace in Bamum, Africa. Then spread your sleeping bag among some of our most popular exhibitions.

The event includes an evening snack and continental breakfast in the morning.  
Fridays, 5:45pm until 9am the following morning.

Individual families can choose Standard Overnight tickets (\$63, \$53 members), Premium Package 1 tickets (\$75, \$65 members), or Premium Package 2 with Tour (\$87, \$77 members). Premium Package 1 guests sleep in the *Evolving Planet* exhibition—with the dinosaurs! Premium Package 2 with Tour guests also go on a behind-the-scenes tour with a Field Museum scientist.

### 2013 DATES

**January 11 • February 1, 8 • March 1, 8, 15 • April 5, 12\* • May 10\*\* • June 7**

\*The April 12 overnight will include special programming and admission to the *Scenes from the Stone Age: The Cave Paintings of Lascaux* temporary exhibition.

\*\*The May 10 overnight will include special programming and admission to the *Creatures of Light* temporary exhibition.

Visit [fieldmuseum.org](http://fieldmuseum.org) or call 312.665.7400 to register.

Major Sponsor: Fifth Third Bank

## summer programs

**Dino Camp: I Spy a Dinosaur! Do You?** is an early childhood camp designed expressly for young paleontologists ages 3–4 with their caregivers.

**six sessions > June 3 through June 27\***

**Summer Worlds' Tour** offers a week of adventures in Chicago's premier museums for children entering kindergarten through fifth grade in the fall of 2013.

**four sessions > July 8 through August 2\***

**Become a Summer Teen Volunteer!** The Field's Summer Teen Volunteer Program provides a unique way for teens to meet their high school public service requirement. Teens are trained to facilitate hands-on activities that highlight The Field Museum's collections and research. Ideal candidates are between the ages of 14–19 years old and have completed their freshman year of high school. Please go to [fieldmuseum.org](http://fieldmuseum.org) for applications.

\*See page 8 for details.

**fieldmuseum.org**  
event details are available online!



IMAGES: THE FIELD MUSEUM



**Take The Field Museum with you!** From a skunk specimen, to SUE's tooth, to a ceremonial mask from Cameroon, the *N. W. Harris Learning Collection at The Field Museum* gives educators and parents the chance to take the Museum's collection to their classroom or home. Borrow these specimens and artifacts and when you return your borrowed treasures, peruse our 100-year-old *Learning Collection* and take something else home. Use materials from the *N. W. Harris Learning Collection* to engage learners



in scientific practices, develop critical thinking skills, and pique curiosity about Earth's natural and cultural diversity.

With over 400 unique Exhibit Cases (mini-dioramas) and 70 Experience Boxes (hands-on kits) your options are endless!

## Learning Through Collections 101:

### How to use the N. W. Harris Learning Collection

#### Do you want to get your kids excited about science?

Learn how to use real artifacts and specimens to engage in scientific investigation with your kids. The *N. W. Harris Learning Collection at The Field Museum* offers over 1,500 treasures for educators and parents to borrow and take to their home or classroom. This program is open to anyone, but perfect for teachers and parents interested in understanding more about how to learn through objects.

The program runs from

10am to noon on the

following Saturdays:

January 26, February 23,

March 16, and April 6.

This program is free with pre-registration. To register or find out more, email

[harris@fieldmuseum.org](mailto:harris@fieldmuseum.org)

# digital learning opportunities!

#### Teen Exhibit

**Field Museum science has a fresh voice;** the Museum's first-ever show featuring videos written and produced by teens is coming this spring!

See what happens when Chicago-area teens go behind the scenes, working with Museum scientists and professional filmmakers to tell stories of research and discovery. Find out how teens talked a scientist into rapping, turned mummification into claymation, and created a love story starring fossils. This is your chance to experience the Museum and its research as never before!

Opens April 5, 2013.

Marae Gallery. Free with admission.

The programs featured in this exhibition have been developed in partnership with The Field Museum and the New Learning Institute of the Pearson Foundation.

For more info and to register, go to: [fieldmuseum.org/schools/digital-media-learning](http://fieldmuseum.org/schools/digital-media-learning)

#### Virtual Visits

**Exclusive for Middle and High School Students and Teachers!** Go on a behind-the-scenes experience you'll never forget... without leaving your school campus! If you have a computer and internet connection, you and your students can be a part of the first official "virtual visit." This is your chance to take your students into the Museum's Mammals Prep Lab LIVE with scientist Bill Stanley and experience a squirrel dissection! Youth will be able to ask questions in real time and get answers straight from our scientist.

#### Middle School Broadcasts:

Tuesday, January 22 > 10-11am

Wednesday, January 23 > 1:30-2:30pm

#### High School Broadcasts:

Tuesday, January 22 > 1:30-2:30pm

Wednesday, January 23 > 10-11am

## Don't miss these exhibitions before they close!

### Maharaja: The Splendor of India's Royal Courts

Through February 3, 2013

Explore the extraordinarily rich heritage of India's fabled maharajas in this exhibition organized by London's V&A Museum and featuring nearly 200 stunning treasures spanning 250 years.

Lead sponsors: BMO Harris Bank, Exelon

Exhibition organized by the Victoria and Albert Museum, London

### Images of the Afterlife: Facing the Ancient Egyptians

Through June 9, 2013

Come face to face with two of the Museum's mummies. Artist Elisabeth Daynès used CT scans of Egyptian mummies to produce realistic portraits of people who lived and died thousands of years ago.

### Fashion and The Field Museum Collection: Maria Pinto

Through June 16, 2013

See the Museum's collections through the eyes of fashion designer Maria Pinto. The exhibition features Pinto's latest garments and accessories inspired by artifacts from the Museum's anthropology collections.

Major Sponsor: Sara Lee Foundation

### Getting to The Field Museum

Many buses and rail lines provide access to The Field Museum. For more information, call 888.YOURCTA or visit [www.transitchicago.com](http://www.transitchicago.com). Visit [www.rtachicago.com](http://www.rtachicago.com) for regional transit information.

### What do you think about In The Field?

For questions about the magazine, call 312.665.7107, email [ewaldren@fieldmuseum.org](mailto:ewaldren@fieldmuseum.org) or write Emily Waldren, Editor. For general membership inquiries, including address changes, call 866.312.2781.

always be discovering.

The Field Museum



### Sign up for the Crown Family PlayLab E-News!

This e-newsletter is an early science literacy resource geared towards families with young children ages two through six. To start receiving emails, please contact [playlab@fieldmuseum.org](mailto:playlab@fieldmuseum.org).



# The Field Museum

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## The Annual Fund

The Field Museum's special exhibitions, like *Maharaja: The Splendor of India's Royal Courts* and classics like *SUE the T. rex* and *Evolving Planet*, make us one of the most exciting cultural sites in Chicago. But what secrets does the Museum hold?

When you become an annual donor to the Museum, you can unlock some of our secrets for yourself! Go beyond the exhibitions and behind the scenes and discover how much more there is to explore in our vaults and labs.

As a donor, you will get to know The Field's mission and work more intimately. Because your gift is vital, we ensure that you can see as much of the Museum as possible with a private orientation tour and special events like the Annual Fund Donor Appreciation Night.

We invite you to join the Annual Fund today. For more information visit [fieldmuseum.org/support/individual-giving](http://fieldmuseum.org/support/individual-giving) or contact Madalyn Kenney, Manager of Annual Giving, at 312.665.7801 or [mkenney@fieldmuseum.org](mailto:mkenney@fieldmuseum.org).



GN90657\_03D / MARK WIDHALM



## Inspired by the Stone Age

Expand your world view when you explore our *Scenes from the Stone Age* store. We have gathered a special shopping collection that unites art and science. Inspired by the French caves of Lascaux, our products include kits to help you create your own artwork, books to help you take a deeper look, and foods and decor from France. And we offer our usual superlative assortment of jewelry, such as this stunning, one-of-a-kind dendritic agate pendant strung on a brown tourmaline.

As always you can shop the Museum Stores 24 hours a day at [fieldmuseum.org](http://fieldmuseum.org). Remember that all proceeds from the Stores directly support the Museum's public and scientific programs, and that all Field Museum members receive 10 percent off their purchases in the Museum Stores.

LINDSAY SILK-KREMENAK / THE FIELD MUSEUM